

## ABSTRACT

A composition of matter or modifier for use in modifying unfunctionalized polymers comprising a metal oxide substrate that can be formed into a sol, a water soluble, acid moiety, having a hydrocarbyl group with olefinic unsaturation, bound to the metal oxide substrate and a water soluble, free radical initiator, the composition of matter generally being in the form of a dry powder that can be mixed with a polymer lacking functional groups whereupon when the mixture is subjected to conditions which result in the decomposition of the free radical initiator to form free radicals.

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